

FIG. 1A-1
FIG. 1A-2

FIG. 1A

```

glattlcatat oaacagagag gatcgacagga ggccggcact ctgaactctg glggatggga ctaggggctc agaglteaagc cctgaactggc tggggcgagg cgctccgggt cagcattgaa
120
AGTCTCTGGG GGGTCCCTGGT ATTCTCTCTG CTGGCTGCAG GACTGCCCGT CCRGGGGGGC AAGCGGTTC GTGATGTGCT GGGCCCATGAG CAGTATDCGG ATCAGATGAG GGAGACACAC
240
S L C G U L U F L L L R A G L P L Q R A K R F R D U L G H E Q Y P D H M R E M H
CATTACCTG GCIGGCTTC ACATGAAAT GATTGGATG AACACCTGTA TCCAGTGTGG AGGAGGGGAG AGGCGAGATG CAGGACCTCC TGGCAGGAG CCCGTGTCCA GGACGGCCCTA
360
Q L R G H S S D E H E U D E Q L Y P V W R R G E G R W K D S W E G G R U Q R A L
ACCACTGATT CACCGGCCCTT GGTGGGTTC ATATACCTT TCGTAGTGAA CTTGGTGTTC CCAAGATGCC AARAGCAGA TCCCAACGGC AATATCGTCT ATGAGAGGAA CTGCAGAGT
480
T S D S P A L U G S H I T F U V H L V F P R C Q K E D A H G H I U Y E R H C R S
GATTGGAGC TGGCTTCTGA CCCGATGTC TACACCTGGA CCRACGGGGC AGACGATGAG GACTGGGAG ACACACCCAG CCAAGGCCAG CACCTCAGGT TCCCGACGG GAGGCCCTTC
600
D L E L R S D P Y U Y H W T T G A D D E D W E D H T S Q G Q H L R F P D G K P F
CCTCGCCCCC ACGACCGGAA GAATGGAGC TTGCTCTAGG TCTTCCACAC ACTTGGTCAG TATTITCAA AGCTGGGTCA GTGTTCAGCA CGAGTTCTA TAACACAGT CAACCTTGACA
720
P R P H G R K K W H F U Y U F H T L G Q Y F Q K L G Q C S A R U S I H T U H L T
GTGGCCCCC AGCTCATGGA AGTATTGTC TTTCGAGCAC ACCGGCCGGC ATACATTCCC ATCTCCAGG TGAAAGACCT GTATGTGATA ACAGATCAGA TCCCTATATT CGTCACCATG
840
U G P Q U H E U I U F R A H G A Y I P I S K U K D U Y U I T D Q I P I F U T M
TACCAGAGA ATGACCGGAA CTGCTCTGAT GAACCTTCC TCAGAGACCT CCCCATTTC TTGATGTCC TCATTCACCA TCCCGATCAT TTCTCAGT ACTCTGCCAT TTCTACAG
960
Y Q K H D R H S S D E T F L R D L P I F F D U L I H D P S H F L H Y S A I S Y K

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FIG. 1A-1

TGGACCTTGG GGGACACACG TGGCCIGTTT GTCGCCACCA ATCCACACTT GAATCACAGG TATGTGCTCA ATGGACCTT CACCTTTAC CTCACCGTGC AACCTGCAGT GCCGGGACCA 1080
 U H F G D H T G L F U S H H H T L H H T Y U L H G T F H F H L T U Q T A U P G P
 TGGCCCTCAC CCACACCTTC GCCTTCTTCT TCGACTTCTC CTTCGCCTGC ATCTTCCCT TCGCCACAT TATCACACCC TAGTCCCTCT TTAATGCCTA CTGGCTACAA ATCATGGAG 1200
 C P S P T S S S T S P S P A S S P S P T L S T P S P S L H P T G Y K S H E
 CTGAGTGACA TTTCACATCA AACCTGCCCA ATACACACAT ATGCTTACTT CAGAGCCACC ATCACATTG TAGATGGAT CCTAGAGTC AACATCATCC AGGTAGCACA TGTCCCATC 1320
 L S D I S H E H C R I H R Y G Y F R A T I T I U D G I L E U H I I Q U A D U P I
 CCGACACTGC AGCCTGACCA CTCACTGATG GACTTCATTG TGACCTGCAA AGGGGCCACT CCGAGCGAGG CCTGTACGAT CATCTCTGAC CCGCTCTGCC AGATGCCCA GAAACGGGTG 1440
 P T L Q P D H S L M D F I U T C K G A T P T E A C T I I S D P T C Q I A Q H R U
 TCGAGGCCCG TGGCTGTGCA TGAGCTGTGC CTCCTGTCCG TGAGGACAGC CTTCATATGG TCGGGERCCT ACCTGTGTGAA TTACACTCTG GAGACCGATG CAGCCCTGGC CCTACACAGC 1560
 C S P U A U D E L C L L S U A R A R F H G S G T Y C U H F T L G D D A S L A L T S
 GCGCTGATCT CTATCCCTGG CAAGACCTTA GGCCTCCCTC TGAGACACAGT GAATGGTGTG CTGATCTCCA TTGGCTGCC TGGCATGTTT GTACCATGG TTACCATCTT GCTGTACAAA 1680
 A L I S I P G K D L G S P L A T U H G U L I S I G C L A H F U T H U T I L L Y K
 AACACACAGA CGTACACAGC AATAGGAAAC TGCACACAGA ACGTGGTCAA GGCACAGGC CTGAGTGTIT TTCTCAGCCA TGCAAAAGCC CCGCTTCTCC GAGGACAGCC GGAACAGCAT 1800
 K H K T Y K P I G H C T R H U U K G K G L S U F L S H A K A P F S R G D R E K D
TCCCTCTCC AGCACACACC ATGATGCTC TAAgtcttca cctctccttc tgcctgggaa cccacctcttc tggcctgtga tggagagctgt gcagaggtac olgacaggta gctgttgttt 1920
 P L L Q D K P U N L
 tctacggatt attgtaaaa gtatatacag gtttggggg tgttgtttaa tggcatttla gtagaaggat gggagagacag tatcttctcg catctgtatt gttgttttta tactgtttaa 2040
 ogggtgggca catgtgtgtc gaaggggggg ggggggggca clgclaello oggtctcagg ttacclggga gaggatgcc caggctcctt agatltctac ocaagatgig cctgaaccca 2160
 gclagctcag acctaaagg catgtctcat caactctatc tcaagctcatt gaacatacct gagggcctga tggaaattata olggaoacca gcttgttga tgggtgtgt ggtacalaa 2280
 galactcatt aaaaagacag tclattaaaa aaaaaaoooo 2320

FIG. 1A-2

EXON	BAC Start	BAC Stop	cDNA Start	cDNA Stop	Exon Length
1	83294	83455	1	162	162
2	89834	89986	163	314	152
3	90696	90839	315	458	144
4	93419	93594	459	634	176
5	96509	96665	635	791	157
6	96983	97300	792	1109	318
7	103044	103142	1110	1208	99
8	104413	104515	1209	1311	103
9	106494	106702	1312	1520	209
10	110048	110141	1521	1614	94
11	110592	111633	1615	2656	1042

poly A signal is position 111614-111619

translation start (ATG) is:
cDNA: 92
Gene: 83385

FIG. 1B

K-D

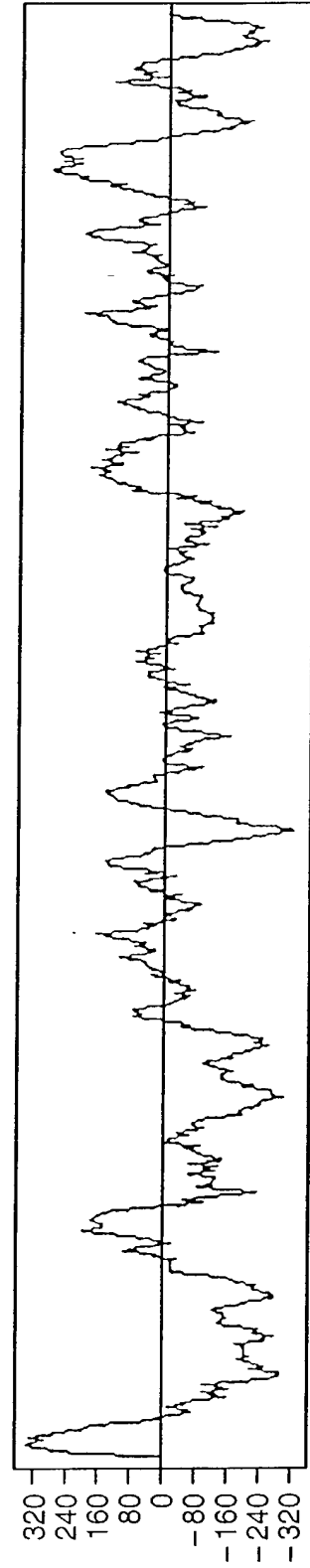


FIG. 1C

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FIG. 2A-1
FIG. 2A-2
FIG. 2A-3
FIG. 2A-4
FIG. 2A-5

FIG. 2A

rat	ATGGAAAGTC	TCTGCGGGGT	CCTGGTATTT	CTGCTGCTGG	CTGCAGGACT	GCCGCTCCAG	GCGGCCAAGC	GGTTC	75
mouse	ATGGAAAGTC	TCTGCGGGGT	CCTGGGATTT	CTGCTGCTGG	CTGCAGGACT	GCCTCTCCAG	GCTGCCAAGC	GATTT	75
human	ATGGAAAGTC	TCTACTATTT	CCTGGGATTT	CTGCTCCTGG	CTGCAAGATT	GCCACTTGAT	GCCCCCAAAC	GATTT	75
rat	CGTGATGTGC	TGGGCCATGA	GCAGTATCCG	GATCACATGA	GGGAGAACAA	CCAATTACGT	GGCTGGTCTT	CAGAT	150
mouse	CGTGATGTGC	TGGGCCATGA	ACAGTATCCC	GATCACATGA	GAGAGCACAA	CCAATTACGT	GGCTGGTCTT	CGGAT	150
human	CATGATGTGC	TGGGCAATGA	AAGACCTTCT	GCTTACATGA	GGGAGCACAA	TCAATTAAAT	GGCTGGTCTT	CTGAT	150
rat	GAAATGAAT	GGGATGAACA	GCTGTATCCA	GTGTGGAGGA	GGGGAGAGGG	CAGATGGAAG	GACTCCTGGG	AAGGA	225
mouse	GAAATGAAT	GGGATGAACA	CCTGTATCCA	GTGTGGAGGA	GGGGAGACGG	CAGGTGGAAG	GACTCCTGGG	AAGGA	225
human	GAAATGACT	GGAATGAAA	ACTCTACCCA	GTGTGGAAGC	GGGGAGACAT	GAGGTGGAAG	AACTCCTGGA	AGGGA	225
rat	GGCCGTGTGC	AGGCAGCCCT	AACCAGTGAT	TCACCGGCCT	TGGTGGGTTT	CAATATCACC	TTCGTAGTGA	ACCTG	300
mouse	GGCCGTGTGC	AGGCAGTCCT	GACCAGTGAC	TCACCGGCTC	TGGTGGGTTT	CAATATCACT	TTTGTGGTGA	ACCTG	300
human	GGCCGTGTGC	AGGCGGTCCT	GACCAGTGAC	TCACCAGCCC	TCGTGGGCTC	AAATATAACA	TTTGGGTTGA	ACCTG	300

FIG. 2A-1

rat	GTGTTCCCA	GATGCCAGAA	GGAAGATGCC	AACGGCAATA	TCGTCTATGA	GAGGAAGTGC	AGAAGTGATT	TGGAG	375
mouse	GTGTTCCCA	GATGCCAGAA	GGAAGATGCT	AATGGCAATA	TCGTCTATGA	GAAGAAGTGC	AGGAATGATT	TGGGA	375
human	ATATTCCCTA	GATGCCAAA	GGAAGATGCC	AATGGCAACA	TAGTCTATGA	GAAGAAGTGC	AGAAATGAGG	CTGGT	375
rat	CTGGCTTCTG	ACCGGTATGT	CTACAAGTGG	ACCACAGGGG	CAGACGATGA	GGACTGGGAA	GACAACACCA	GCCAA	450
mouse	CTGACATCTG	ACCTGCATGT	CTACAAGTGG	ACTGCAGGGG	CAGATGATGG	TGACTGGGAA	GATGGCACCA	GCCGA	450
human	TTATCTGCTG	ATCCATATGT	TTACAAGTGG	ACAGCATGGT	CAGAGGACAG	TGACGGGGAA	AATGGCACCG	GCCAA	450
rat	GGCCAGCACC	TCAGGTTCCC	CGACGGGAAG	CCCTTCCCTC	GCCCCACCG	ACGGAAGAAA	TGGAAGTTCG	TCTAC	525
mouse	AGCCAGCATC	TCAGGTTCCC	GGACAGGAGG	CCCTTCCCTC	GCCCCCATGG	ATGGAAGAAA	TGGAGCTTTG	TCTAC	525
human	AGCCATCATA	ACGTCTTCCC	TGATGGGAAA	CCTTTCCCTC	ACCACCCCGG	ATGGAGAAGA	TGGAATTTCA	TCTAC	525
rat	GTCTTCCACA	CAC TTGGTCA	GTATTTTCAA	AAGCTGGGTC	AGTGTTTCCAG	ACGAGTTTCT	ATAAACACAG	TCAAC	600
mouse	GTCTTTCACA	CAC TTGGCCA	GTATTTTCAA	AAACTGGGTC	GGTGTTTCCAG	ACGGGTTTCT	ATAAACACAG	TCAAC	600
human	GTCTTCCACA	CAC TTGGTCA	GTATTTTCCAG	AAATTGGGAC	GATGTTTCCAG	GAGAGTTTCT	GTGAACACAG	CCAAT	600
rat	TTGACAGTTG	GCCCTCAGGT	CATGGAAGTG	ATTGTCTTTC	GAAGACACCG	CCGGGCATAC	ATTCCCATCT	CCAAA	675
mouse	TTGACAGCTG	GCCCTCAGGT	CATGGAAGTG	ACTGTCTTTC	GAAGATACCG	CCGGGCATAC	ATTCCCATCT	CGAAG	675
human	GTGACACTTG	GGCCTCAACT	CATGGAAGTG	ACTGTCTTACA	GAAGACATGG	ACGGGCATAT	GTTCCCATCG	CACAA	675

FIG. 2A-2

rat	GTGAAAGACG TGTATGTGAT AACAGATCAG ATCCCTATAT TCGTGACCAT GTACCAGAAG AATGACCGGA ACTCG	750
mouse	GTGAAAGATG TGTATGTGAT AACAGATCAG ATCCCTGTAT TCGTGACCAT GTCCAGAAAG AATGACAGGA ACTTG	750
human	GTGAAAGATG TGTACGTGGT AACAGATCAG ATTCCTGTGT TTGTGACTAT GTTCCAGAAG AACGATCGAA ATTCA	750
rat	TCTGATGAAA CCTTCCTCAG AGACCTCCCC ATTTCTTCG ATGTCCTCAT TCACGATCCC AGTCATTCC TCAAC	825
mouse	TCTGATGAGA TCTTCCTCAG AGACCTCCCC ATCGTCTTCG ATGTCCTCAT TCATGATCCC AGCCACTTCC TCAAC	825
human	TCCGACGAAA CCTTCCTCAA AGATCTCCCC ATTATGTTG ATGTCCTGAT TCATGATCCT AGCCACTTCC TCAAT	825
rat	TACTCTGCCA TTTCCTACAA GTGGAACCTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT	900
mouse	GACTCTGCCA TTTCCTACAA GTGGAACCTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT	900
human	TATTCTACCA TTAACCTCAA GTGGAGCTTC GGGGATAATA CTGGCCTGTT TGTCTCCACC AATCATACTG TGAAT	900
rat	CACACGTATG TGCTCAATGG AACCTTCAAC TTAAACCTCA CCGTGCAAAC TGCAGTGCCG GG----- -ACCA	966
mouse	CACACTTATG TGCTCAATGG AACCTTCAAC TTAAACCTCA CCGTGCAAAC TGCAGTGCCG GG----- -GCCA	966
human	CACACGTATG TGCTCAATGG AACCTTCAAC TTAAACCTCA CTGTGAAAGC TGCAGGACCA GGACCTTGTC CGCCA	975
rat	-TGCC-CC-T CACCCACACC TTGGCCTTCT TCCTCGACTT CTCCTC--- ---GCCTGCA TCCTCGCCTT CA---	1029
mouse	-TGCC-C--T --CCC---CC TTGGCCTTCG ACTCGCCTT CACCTTCAAC TCCGCCCTTA CCTTCGCCCT CACCT	1032
human	CGCCACCCAC CACCCAGACC TTC----- -AA-----A ----- -ACC-	1004

FIG. 2A-3

rat	---CCACAT TATCAACACC TAGTCCCTCT TTAATGCCTA CTGGCTACAA ATCCATGGAG CTGAGTGACA TTTCC	1101
mouse	TTGCCACAT TATCAACACC TAGCCCTCT TTAATGCCTA CTGGTTACAA ATCCATGGAG CTGAGTGACA TTTCC	1107
human	-----CACC ----CCTTCT TTAGGACCTG CTGGTGACAA CCCCCTGGAG CTGAGTAGGA TTCCT	1059
rat	AATGAAACT GCCGAATAA CAGATAAGGT TACTTCAGAG CCACCATCAC AATTGTAGAT GGAATCCTAG AAGTC	1176
mouse	AATGAAACT GCCGAATAA CAGATAAGGC TACTTCAGAG CCACCATCAC AATTGTAGAG GGGATCCTGG AAGTC	1182
human	GATGAAACT GCCAGATTAA CAGATAAGGC TACTTTCAAG CCACCATCAC AATTGTAGAG GGAATCTTAG AGGTT	1134
rat	AACATCATCC AGGTAGCAGA TGTCCCAATC CCCACACTGC AGCCTGACAA CTCACTGATG GACTTCATTG TGACC	1251
mouse	AGCATCATGC AGATAGCAGA TGTCCCATG CCCACACCGC AGCCTGCCAA CTCCTGATG GACTTCACTG TGACC	1257
human	AACATCATCC AGATGACAGA CGTCCTGATG CCGGTGCCAT GGCCTGAAAG CTCCTTAATA GACTTTGTCTG TGACC	1209
rat	TGCAAAGGGG CCACTCCCAC GGAAGCCTGT ACGATCATCT CTGACCCCAC CTGCCAGATC GCCCAGAACA GGGTG	1326
mouse	TGCAAAGGGG CCACCCCCAT GGAAGCCTGT ACGATCATCT CCGACCCCAC CTGCCAGATC GCCCAGAACC GGGTC	1332
human	TGCCAAGGGA GCATTCCCAC GGAGGTCTGT ACCATCATTT CTGACCCCAC CTGCCAGATC ACCCAGAACA CAGTC	1284
rat	TGCAGCCCGG TGGCTGTGGA TGAGCTGTGC CTCCTGTCCG TGAGGAGAGC CTTCAATGGG TCCGGCAGCT ACTGT	1401
mouse	TGCAGCCCTG TGGCTGTGGA TGGCTGTGC CTGCTGTCTG TGAGAAGAGC CTTCAATGGG TCTGGCACCT ACTGT	1407
human	TGCAGCCCTG TGGATGTGGA TGAGATGTGT CTGCTGACTG TGAGACGAAC CTTCAATGGG TCTGGGACCT ACTGT	1359

FIG. 2A-4

rat	GTGAATTTC	CTCTGGGAGA	CGATGCAAGC	CTGGCCCTCA	CCAGGCCCT	GATCTCTATC	CCTGGCAAAG	ACCTA	1476
mouse	GTGAATTTC	CTCTGGGAGA	TGATGCAAGC	CTGGCCCTCA	CCAGCACCC	GATCTCTATC	CCTGGCAAAG	ACCCA	1482
human	GTGAACCTCA	CCCTGGGGGA	TGACACAAGC	CTGGCTCTCA	CGAGCACCC	GATTCTCTGT	CCTGACAGAG	ACCCA	1434
rat	GGTCCCCCTC	TGAGAACAGT	GAATGGTGC	CTGATCTCCA	TTGGCTGCCT	GGCCATGTTT	GTCACCATGG	TTACC	1551
mouse	GACTCCCCCTC	TGAGAGCAGT	GAATGGTGC	CTGATCTCCA	TCGGCTGCCT	GGCTGTGCTT	GTCACCATGG	TTACC	1557
human	GCCTCGCCCTT	TAAGGATGGC	AAACAGTGCC	CTGATCTCCG	TTGGCTGCTT	GGCCATATTT	GTCACCTGTGA	TCTCC	1509
rat	ATCTTGCTGT	ACAAAAAACA	CAAGACGTAC	AAGCCAATAG	GAACTGCAC	CAGGAACGTG	GTCAGGGGCA	AAGGC	1626
mouse	ATCTTGCTGT	ACAAAAAACA	CAAGGCGTAC	AAGCCAATAG	GAACTGCCC	CAGGAACACG	GTCAGGGGCA	AGGGC	1632
human	CTCTTGCTGT	ACAAAAAACA	CAAGGAATAC	AACCCAATAG	AAAATAGTCC	TGGGAATGTG	GTCAGAGCA	AAGGC	1584
rat	CTGAGTGTTT	TTCTCAGCCA	TGCAAAAGCC	CCGTTCTCCC	GAGGAGACCG	GGAGAAGGAT	CCACTGCTCC	AGGAC	1701
mouse	CTGAGTGTTT	TCCTCAGTCA	CGCGAAAGCC	CCGTTCTTCC	GAGGAGACCA	GGAGAAGGAT	CCATTGCTCC	AGGAC	1707
human	CTGAGTGCT	TTCTCAACCG	TGCAAAAGCC	GTGTTCTTCC	CGGGAACCA	GGAAAAGGAT	CCGCTACTC-	---AA	1655
rat	AAGCCATGGA	TGCTCTAA--	-----	-	-	-	-	-	1719
mouse	AAGCCAAGGA	CACCTCTAA--	-----	-	-	-	-	-	1725
human	AAACCAAGAA	---TTTAAAG	GAGTTTCTTA	A	-	-	-	-	1683

FIG. 2A-5

FIG. 2B-1
FIG. 2B-2

FIG. 2B

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rat	MESLCGVLVF	LLLAAGLPLQ	AAKRFRDVLG	HEQYPDHMR	NNQLRGWSSD	50
mouse	MESLCGVLVF	LLLAAGLPLQ	AAKRFRDVLG	HEQYPDHMR	HNQLRGWSSD	50
human	MECLYFELGF	LLLAARLPLD	AAKRFRDVLG	NERPSAYMR	HNQLNGWSSD	50
rat	ENEWDEQLYP	VWRRGEGRWK	DSWEGGRVQA	ALTSDSPALV	GSNITFVVNL	100
mouse	ENEWDEHLYP	VWRRGDGRWK	DSWEGGRVQA	VLTSDSPALV	GSNITFVVNL	100
human	ENDWNEKLYP	VWKRGDMRWK	NSWKGRVQA	VLTSDSPALV	GSNITFAVNL	100
rat	VFPRCQKEDA	NGNIVYERN	RSDLELASDP	YVYNWTTGAD	DEDWEDNTSQ	150
mouse	VFPRCQKEDA	NGNIVYEKNC	RNDLGLTSDL	HVYNWTAGAD	DGDWEDGTSR	150
human	IFPRCQKEDA	NGNIVYEKNC	RNEAGLSADP	YVYNWTAWSE	DSDGENGTCQ	150
rat	GQHLRFPDCK	PFPRPHGRKK	WNFVYVFHTL	GQYFQKLQGC	SARVSINTVN	200
mouse	SQHLRFPDRR	PFPRPHGWKK	WSFVYVFHTL	GQYFQKLQGC	SARVSINTVN	200
human	SHHNVFPDCK	PFPHPGWRR	WNFIYVFHTL	GQYFQKLQGC	SVRVSNTAN	200
rat	LTVGPQVMEV	IVFRRHGRAY	IPISKVKDVI	VITDQIPIFV	TMYQKNDRNS	250
mouse	LTAGPQVMEV	TVFRRYGRAY	IPISKVKDVI	VITDQIPFV	TMSQKNDRNL	250
human	VTLGPQLMEV	TVYRRHGRAY	VPIAQVKDVI	VVTDQIPFV	TMEQKNDRNS	250
rat	SDETLFLDLP	IFEDVLIHDP	SHFLNYSAIS	YKWNFGDNTG	LFVSNHHTLN	300
mouse	SDEIFLRLDP	IVFDVLIHDP	SHFLNDSAIS	YKWNFGDNTG	LFVSNHHTLN	300
human	SDETLFLDLP	IMFDVLIHDP	SHFLNYSTIN	YKWSFGDNTG	LFVSTNHTVN	300

FIG. 2B-1

rat	HTYVLNGTFN	FNLTVQTAVP	GPCPSPTPS-	-PSSSTSPSP	ASSPSPTLST	348
mouse	HTYVLNGTFN	LNLTVQTAVP	GPCPPPPSPST	PPSPSTPPLP	SPSPLPTLST	350
human	HTYVLNGTFS	LNLTVKAAAP	GPCPPPPP--	-----PPRP	-----SK	334
rat	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVDG	ILEVNIQVA	398
mouse	PSPSLMPTGY	KSMELSDISN	ENCRINRYGY	FRATITIVEG	ILEVSIMQIA	400
human	PTPSLGPAGD	NPLELSRIPD	ENCQINRYGH	FQATITIVEG	ILEVNIQMT	384
rat	DVPIPTLQPD	NSLMDFIVTC	KGATPTEACT	IISDPTCQIA	QNRVCSPVAV	448
mouse	DVPMPTPQPA	NSLMDFTVTC	KGATPMEACT	IISDPTCQIA	QNRVCSPVAV	450
human	DVLMVPWPPE	SSLIDFVVTC	QGSIPTEVCT	IISDPTCEIT	QNTVCSPVDV	434
rat	DELCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSALISIP	GKDLGSPLRT	498
mouse	DGLCLLSVRR	AFNGSGTYCV	NFTLGDDASL	ALTSTLISIP	GKDPDSPLRA	500
human	DEMCLLTVRR	TFNGSGTYCV	NFTLGDDTSL	ALTSTLISVP	DRDPASPLRM	484
rat	VNGVLISIGC	LAMFVTMVTI	LLYKKHKTYK	PIGNCTRNVV	KGKGLSVFSL	548
mouse	VNGVLISIGC	LAVLVTMVTI	LLYKKHKAYK	PIGNCPRNTV	KGKGLSVLLS	550
human	ANSALISVGC	LAIFVTVISL	LVYKKHKEYN	PIENSPGNVV	RSKGLSVFLN	534
rat	HAKAPFSRGD	REKDPLLQDK	PW--ML			572
mouse	HAKAPFFRGD	QEKDPLLQDK	PR--TL			574
human	RAKAVFFPGN	QEKDPLLKNQ	EFKGVS			560

FIG. 2B-2

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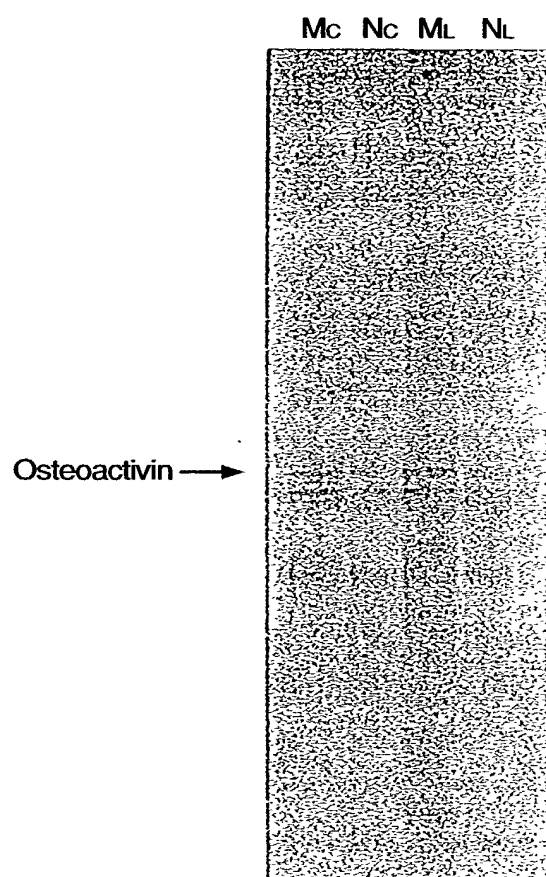


FIG. 3

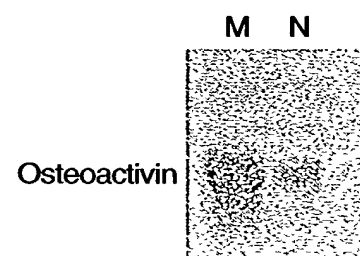


FIG. 4A

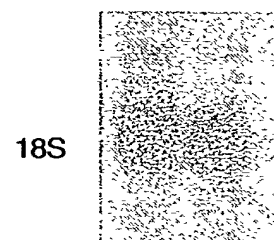


FIG. 4B

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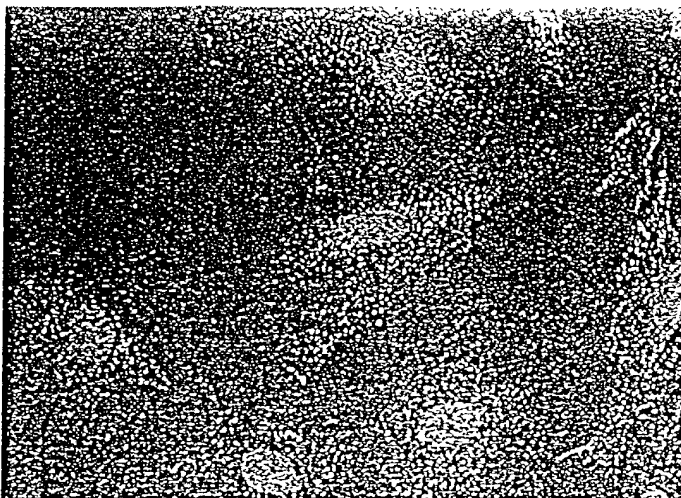


FIG. 5

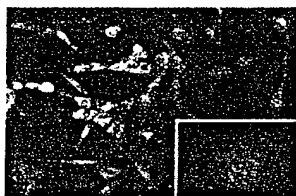


FIG. 5A

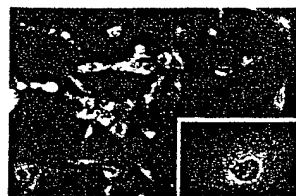


FIG. 5B

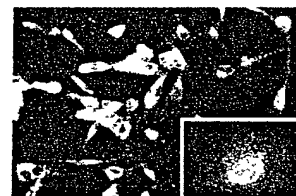


FIG. 5C

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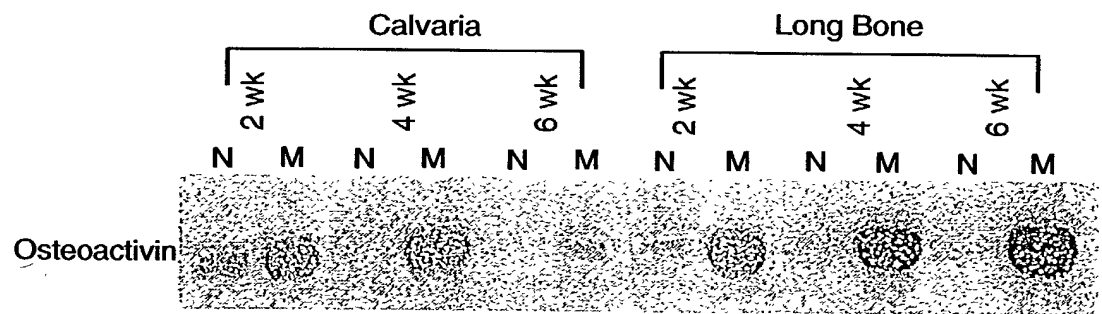


FIG. 6

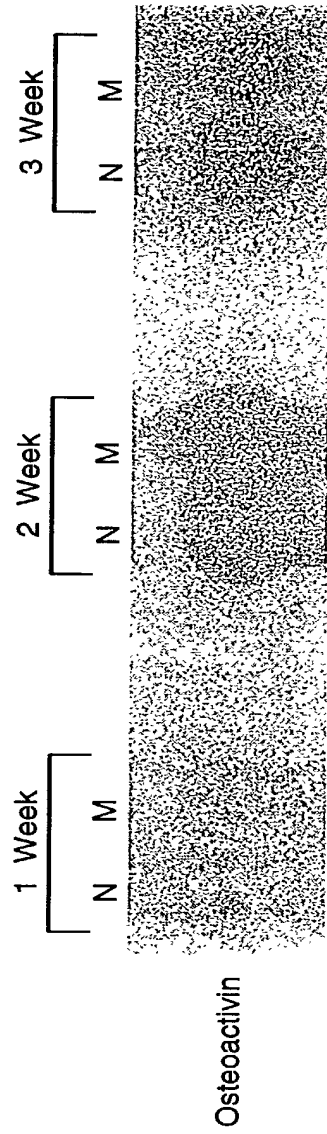


FIG. 7A

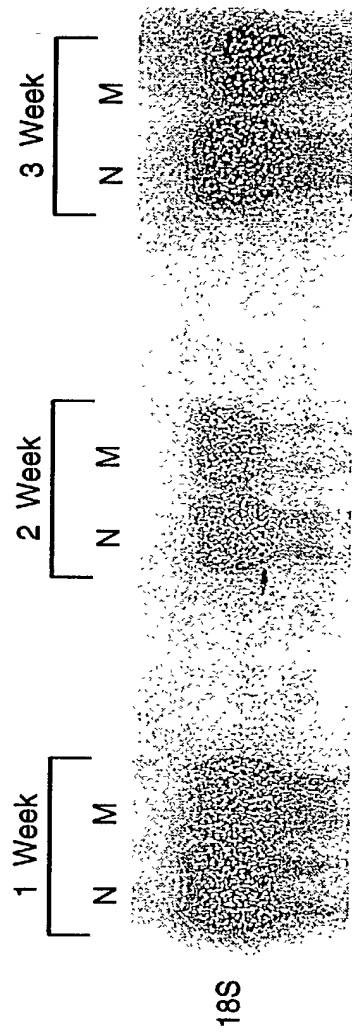


FIG. 7B



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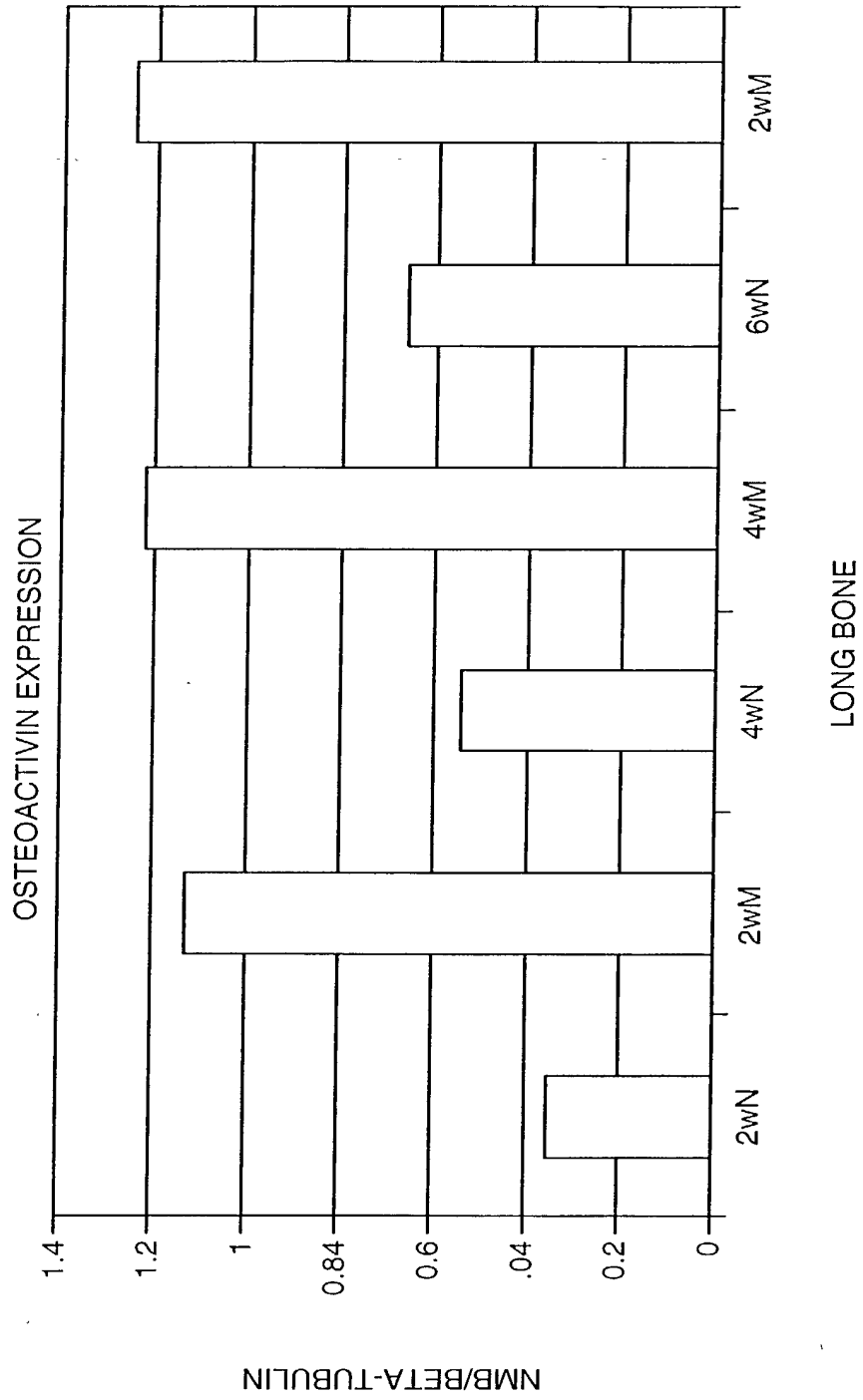


FIG. 9

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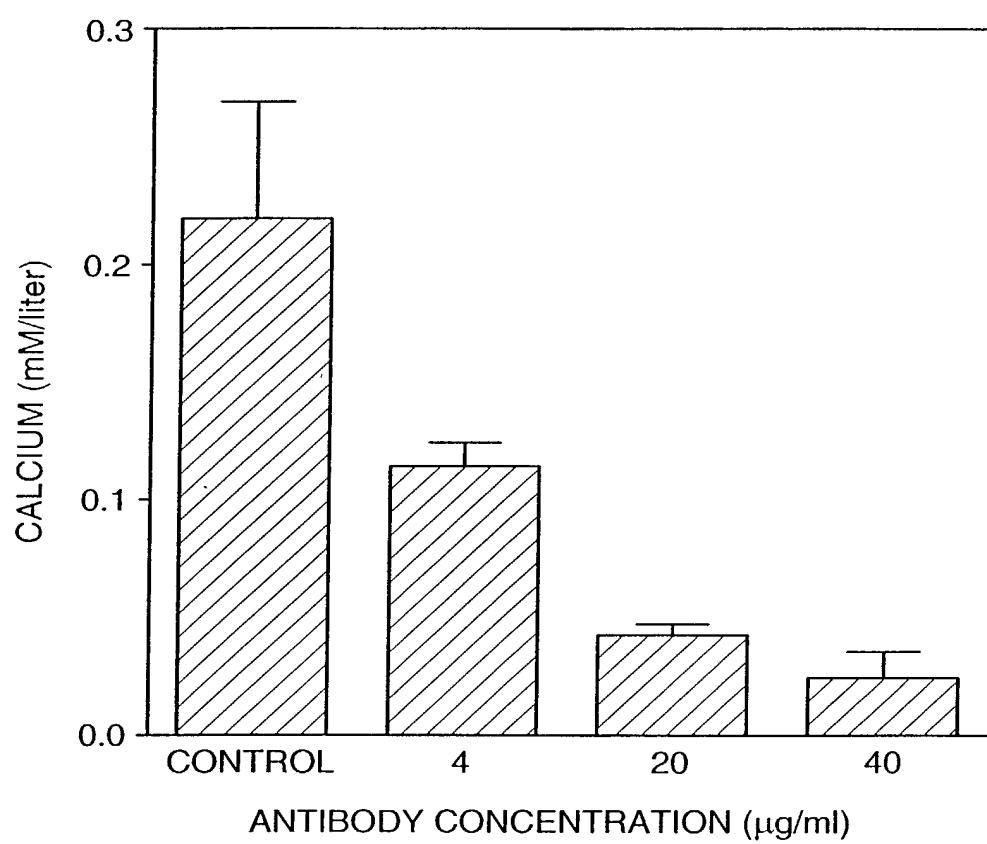


FIG. 10